

SBI 3U – GENETIC PROCESSES UNIT PLAN

Day 1	Day 2	Day 3	Day 4	Day 5
Review of Mitosis Activity (hand-out unit vocabulary list)	In class investigation (Gizmo of meiosis)	Consolidation of Gizmo and meiosis stages	Sources of variance in meiosis (crossing over, independent assortment)	Gamete formation Review for dry-lab
Day 6	Day 7	Day 8	Day 9	Day 10
<u>Dry-Lab:</u> Comparing mitosis and meiosis (Assessment of learning)	(Finish dry-lab if necessary) In class investigation comparing traits	Karyotype and meiosis mistakes	Origins of genetics (historical case study)	Complete dominance - Inheritance of one trait (monohybrid cross; probability) Exit slip (assessment for learning)
Day 11	Day 12	Day 13	Day 14	Day 15
Complete dominance -Inheritance of two traits (dihybrid cross and test cross) Exit slip (assessment for learning)	Codominance and incomplete dominance Exit slip (assessment for learning)	-Sex-linkage and sex-linked genetic disorders -Analysis of pedigree charts	<u>Wet Lab:</u> Fruit Fly Breeding and Analysis) (Assessment of learning)	Current developments in genetics (Hand out outline for STSE assignment)
Day 16	Day 17	Day 18	Day 19	Day 20
Work period for the <u>STSE assignment</u> (computer lab)	Presentations (Assessment of learning)	Presentations (Assessment of learning)	Review	Unit Test (Assessment of learning)